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NOTICE OF ALLOWANCE AND FEE(S) DUE

21967 7590 03099/2010 HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON. DC 20006-1109

EXAMINER				
BERTOGLIO, VALARIE E				
ART UNIT PAPER NUMBER				
1632				
DATE MAILED: 03/09/2010				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,530	07/21/2006	Keiichi Fukuda	58777.000019	9902

TITLE OF INVENTION: METHOD OF INDUCING THE DIFFERENTIATION OF STEM CELLS INTO MYOCARDIAL CELLS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including a below or directed oth tions.	for transmitting the ng the Patent, advan- nerwise in Block 1,	ISSUE FEE and PUBL ce orders and notificatio by (a) specifying a new	n of m	ON FEE (if requin naintenance fees wi pondence address;	ed). E II be : and/or	Blocks 1 through 5 sh mailed to the current (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
INTELLECTUA 1900 K STREET	VILLIAMS LLP L PROPERTY DE	v2010 PARTMENT		I ber	Certi	ficate	of Mailing or Transı	
SUITE 1200 WASHINGTON	, DC 20006-1109							(Depositor's name)
	, 150 20000 1105							(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVE	NTOR	1.	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/574,530	07/21/2006		Keiichi Fukud	ı			58777.000019	9902
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	06/09/2010
EXAM	INER	ART UNIT	CLASS-SUBCLAS	SS				
BERTOGLIO,		I632	435-377000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	" Indication form ed. Use of a Custom	or agents OR, alt (2) the name of a registered attorned 2 registered pate listed, no name when the pate of the pat	ernative single y or a at attor fill be or typ the pa	e firm (having as a a gent) and the name: meys or agents. If n printed.	memb s of up o nam	er a 2	cument has been filed for
Please check the appropri	are submitted:		be printed on the patent) 4b. Payment of Fee(s) A check is enclosed.	(Plea		_		up entity Government
Publication Fee (No small entity discount permitted)			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
Advance Order - #	f of Copies		overpayment, to	Depo:	authorized to charg sit Account Number	e the r	equired fee(s), any def (enclose ar	iciency, or credit any extra copy of this form).
	s SMALL ENTITY state	as. See 37 CFR 1.27.					TTY status. See 37 CF	
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req ecords of the United Sta	uired) will not be acc ites Patent and Trade	epted from anyone other mark Office.	than th	he applicant; a regist	tered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	U.S.C. 122 and 37 (U.S.C. 122 and 37 (USPTO. Time will rden, should be sent O NOT SEND FEES	mation is required to obta CFR 1.14. This collection vary depending upon the to the Chief Information OR COMPLETED FOR	in or re is esti indiv Office MS TO	etain a benefit by the imated to take 12 m idual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment raden SENI	ic which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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21967 75	590 03/09/2010	EXAMINER				
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	PROPERTY DEPART	PMENT	ART UNIT	PAPER NUMBER		
1900 K STREET, N.W. SUITE 1200			1632			
SUITE 1200			DATE MAIL ED: 03/00/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 211 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 211 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Examiner-Initiated Interview Summary	10/574,530	FUKUDA ET AL.	
	Examiner	Art Unit	
	Valarie Bertoglio	1632	
All Participants:	Status of Application: After	er Final	
(1) <u>Valarie Bertoglio</u> .	(3)		
(2) Alex Spiegler.	(4)		
Date of Interview: <u>17 February 2010</u>	Time:		
Type of Interview: ☐ Telephonic ☐ Video Conference ☐ Personal (Copy given to: ☐ Applicant ☐ Applicant ☐ Applicant ☐ No	nt's representative)		
If Yes, provide a brief description:			
Part I.			
Rejection(s) discussed: 35 USC 112 1 st paragraph Scope of Enablement			
Claims discussed: 1-10,12-13,16,18-24			
Prior art documents discussed:			
Part II.			
SUBSTANCE OF INTERVIEW DESCRIBING THE GENER			
The interview was to discuss the breadth of the claims that result before and/or after the differentiation inducing stage. The Koshim was found to only support the "and" situation. As well, Exemple 3. Applicant pointed out that Figure 9, relevant to the teachings in E induction as well as treatment of cells only after induction of differentiation induction, wherein appearant LIF was omitted in the pre-differentiation induction, wherein appearant LIF was omitted in the pre-differentiation stage. Thus, it was deteored the claims and Example 3 is not in contradiction to this	izu declaration filed 01/29/2010 w of the specification appeared to sample 6, supports both treatmer entiation (page 51). This appeare at paragraph (0086) indicates the ce of beating EBs is less than the rmined that the specification, by v	vas considered after final but only support the "and" situation, at of cells before differentiation ed to be in contradiction with at the data representing Noggin e negative control, is because	
Part III.			
 It is not necessary for applicant to provide a separate n directly resulted in the allowance of the application. The of the interview in the Notice of Allowability. It is not necessary for applicant to provide a separate n did not result in resolution of all issues. A brief summary 	examiner will provide a writte ecord of the substance of the	en summary of the substance interview, since the interview	
/Valarie Bertoglio/ Primary Examiner, Art Unit 1632 (A	pplicant/Applicant's Representat	ive Signature – if appropriate)	